Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently amended): An ADPCM decoder, ~~wherein~~ comprising:

an adaptive predictor which calculates [[the]] a prediction signal from a quantization difference signal, the quantization difference signal including a mantissa part and an exponent part, the adaptive predictor including ~~comprises~~ [[:]]

bit developing means which receives said ~~quantization difference signal separated into a~~ mantissa part, ~~and an exponent part~~ and which bit-develops said mantissa part, [[;]]

bit shifting means which bit-shifts said bit-developed mantissa part in accordance with a value of said exponent part, [[;]]

overflow detecting means which is ~~added to the~~ disposed as a most significant bit of said bit developing means and detects an overflow of said bit-shifted mantissa part, [[;]] and

prediction signal output means which, when said overflow detecting means detects the overflow of said bit-shifted mantissa part, replaces said [[bit-developed]] bit-shifted mantissa part with a predetermined upper limit value and outputs [[it]] said predetermined upper limit value as said prediction signal, and [[,]] when the overflow of said bit-shifted mantissa part is not detected, outputs said [[bit-developed]] bit-shifted mantissa part ~~as it is~~ as [[a]] said prediction signal; and

an adder which adds said prediction signal and said quantization difference signal to provide a reproduction signal that corresponds to a decoded signal.

Claim 2 (Currently amended): The decoder ~~detector~~ according to claim 1, wherein said prediction signal output means is a selector which receives said predetermined upper limit value [[from]] at one input terminal and said [[bit-developed]] bit-shifted mantissa

part [[from]] at another input terminal, selects said predetermined upper limit value when said overflow detecting means detects [[said]] the overflow, selects said [[bit-developed]] bit-shifted mantissa part when said overflow detecting means does not detect [[said]] the overflow, and outputs the selected predetermined upper limit value or the selected bit-shifted mantissa part from an output terminal.

Claim 3 (Currently amended): An ADPCM decoder, wherein comprising:

an adaptive predictor which calculates [[the]] a prediction signal from a quantization difference signal, the quantization difference signal including a mantissa part and an exponent part, the adaptive predictor including comprises[[:]]

bit developing means which receives said quantization difference signal separated into a mantissa part, and an exponent part and which bit-develops said mantissa part, [[;]]

bit shifting means which bit-shifts said bit-developed mantissa part in accordance with a value of said exponent part, and [[;]]

overflow detecting means which is added to the disposed as a most significant bit of said bit developing means and detects an overflow of said bit-shifted mantissa part; and

muting processing means which, when the overflow of said bit-shifted mantissa part is detected, stops an output of decoding data of said ADPCM decoder.

Claim 4 (Currently amended): An ADPCM decoder, wherein comprising:

an adaptive predictor which calculates [[the]] a prediction signal from a quantization difference signal, the quantization difference signal including a mantissa part and an exponent part, the adaptive predictor including comprises[[:]]

bit developing means which receives said quantization difference signal separated into a mantissa part, and an exponent part and which bit-develops said mantissa part, [[;]]

bit shifting means which bit-shifts said bit-developed mantissa part in accordance with a value of said exponent part, [[;]] and

overflow detecting means which is added to the disposed as a most

significant bit of said bit developing means and detects an overflow of said bit-shifted mantissa part<u>: [[,]] and</u>

<u>a low pass filter outputting</u> ~~when the overflow of said mantissa part is detected,~~ decoding data of said ADPCM decoder <u>when the overflow of said bit-shifted mantissa part is detected</u> ~~is outputted via a predetermined low pass filter.~~